

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/017,786	11/30/2001	John Hart Lindemann	47058/PAN/C715/CLO155	6113	
3017	7590 03/14/2003		-		
	JOSEPHS & HOLM	EXAMINER			
101 DYER S 5TH FLOOF		MUNSON, GENE M			
PROVIDEN	CE, RI 02903		ART UNIT	PAPER NUMBER	
			2811		
			DATE MAILED: 03/14/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

	Application No.	Applicant(s)					
Office Action Commission	10/17,786	J,	LINDEMANN	ETAL			
Office Action Summary	Examiner G. M.	UNSON	Group Art Unit	-			
-The MAILING DATE of this communication appears	on the cover sheet be	neath the co	rrespondence addr	esș—			
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE THRE	EMONTH(S)	FROM THE MAILIN	NG DATE			
 Extensions of time may be available under the provisions of 37 CFR 1. from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, such period shall, by default, Failure to reply within the set or extended period for reply will, by statuent adjustment. See 37 CFR 1.704(b). 	ly within the statutory mini expire SIX (6) MONTHS fro te, cause the application to	mum of thirty (3) m the mailing da become ABAN	0) days will be considere ate of this communication DONED (35 U.S.C. § 130	od timely. n. 3).			
Status							
☐ Responsive to communication(s) filed on		٠	<u> </u>				
☐ This action is FINAL.							
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 1 1; 453 O.G. 213.							
Disposition of Claims							
\boxtimes Claim(s) $1 - 34$	· · · · · · · · · · · · · · · · · · ·	is/are p	ending in the applica	tion.			
Of the above claim(s)		is/are w	ithdrawn from consid	deration.			
□ Claim(s)							
\boxtimes Claim(s) $1-3, 5-10, 13, 14, 17, 19, 21, 2$	is/are re	jected.					
(Claim(s) 4, 11, 12, 15, 16, 18, 20, 22, 24	7, 25	is/are o	bjected to.				
□ Claim(s)			ect to restriction or e	election			
Application Papers		requirer					
☐ The proposed drawing correction, filed on is ☐ approved ☐ disapproved.							
☐ The drawing(s) filed on is/are objected	ed to by the Examiner						
☐ The specification is objected to by the Examiner.							
☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. § 119 (a)-(d)							
☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)–(d).							
☐ All ☐ Some* ☐ None of the:							
☐ Certified copies of the priority documents have been received.							
☐ Certified copies of the priority documents have been received in Application No							
☐ Copies of the certified copies of the priority documents have been received							
in this national stage application from the International Bureau (PCT Rule 17.2(a))							
*Certified copies not received:	_= -= -=			(~			
Attachment(s)							
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s	terview Sumn	nary, PTO-413					
★ Notice of Reference(s) Cited, PTO-892	otice of Inform	nal Patent Application	n, PTO-152				
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	ther						
Office Action Summary							

U.S. Patent and Trademark Office PTO-326 (Rev. 11/00)

Part of Paper No. #

Application/Control Number: 10/017,786

Art Unit: 2811

Claims 27-29 are rejected under 35 U.S.C. 112, first paragraph. The support for these claims is unclear in the specification. In response, applicants should attempt to read these claims on the appropriate figure.

Claims 8, 17 and 30-34 are rejected under 35 U.S.C. 112, second paragraph. The "dielectric" layer (claim 8) and "second" electrode (claim 17) do not have clear antecedents. In claim 30, acronyms such as "VCSEL" are ambiguous for a claim; it is suggested to use "vertical cavity surface emitting laser (VCSEL)" for clarity, if that is the scope intended. Also the "VCSEL" is of unclear scope absent claiming what the structure necessarily comprises.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

Claims 1-3, 5, 7, 10, 13, 19, 21, 23 and 26 are rejected under 35 U.S.C. 102 as unpatentable as shown by Flynn. See Figures 1, 2, 3Q with "photodetector" 20, 30 and "capacitor" 22, 35A, 42, which is coupled between the photodetector "bias terminal" and ground.

Page 3

Application/Control Number: 10/017,786

Art Unit: 2811

Claims 6-10 and 14 are rejected under 35 U.S.C. 103 as unpatentable over Flynn. The claimed materials are well known for use as a dielectric in the art, as applicants would agree (37 CFR 1.56, MPEP 2144.03), which would have been obvious to use to achieve a capacitor dielectric as in Flynn. PIN photodetectors are also well known, which would have been obvious to use to achieve

a photodetector as in Flynn.

The other references are cited of interest. Conrads et al also show use of a capacitor coupled between a "photodetector bias terminal" and a ground. Yano shows use of an integrated PIN photodetector.

Claims 4, 11, 12, 15, 16, 18, 20, 22, 24 and 25 are objected to as dependent upon rejected claims but would be allowable over the art of record if claims 4, 11, 12, 15, 18, 20, 22 and 25 were each put in completed from including all limitations of claims 1, 2, 4; 1, 2, 11; 1, 2, 12; 1, 2, 13-15; 1, 18; 19, 20; 19, 22; 19, 24; 19, 25. The art of record does not show nor would have suggested these claims taken as a whole.

G. Munson

(703) 308-4925 or 0956

Munson/ek

03/10/03

Sone M. Munson

GENE M. MUNSON
EXAMINER
GROUP ART UNIT 2831